





AGENDA

- o TECHNICAL STATUS
- o AWARD FEE EVALUATION
- o SCHEDULE AND FUNDING
- o ADMINISTRATIVE STATUS
 - CHANGE ORDER SUMMARY
 - STAFFING PROFILE
 - PROJECT PLAN/FINANCIAL PLAN
 - MANAGEMENT CHANGES
- o PROBLEMS
- o SUMMARY

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TECHNICAL STATUS

- o BLOCK 1 PDR (NOV-DEC) 3 PHASES
 - OBJECTIVES:
 - . REQUIREMENTS TRACEABILITY TO DESIGN
 - . INTEGRITY/VALIDITY OF DESIGN TO MEET PERFORMANCE
 - . IDENTIFY SOFTWARE TO UNIT LEVEL
 - PHASE I (16-20 NOVEMBER)
 - . DEMONSTRATION OF REQUIREMENTS ACCOUNTABILITY
 - . ALLOCATION OF BASELINE (B-5 SPECIFICATIONS)
 - . 12 DOCUMENTS
 - PHASE II (30 NOVEMBER 4 DECEMBER)
 - . SYSTEM CONCEPT & DESIGN
 - . 12 DOCUMENTS
 - PHASE III (14-18 DECEMBER)
 - . DETAILED DESIGN TO UNIT LEVEL (PRELIMINARY C-5s)
 - . VALIDATION OF PROJECT PLAN/FINANCIAL PLAN
 - . 18 DOCUMENTS



PHASE I DOCUMENTS

- o REQUIREMENTS TRACEABILITY MTRX. (RTM)
- REQUIREMENTS BASELINE DESCRIPTION
- EMP EXTERNAL MSG. FORMAT SPEC.
- o S/W DEVELOPMENT SPEC. (B5) FOR APS
- o S/W DEVELOPMENT SPEC. (B5) FOR EMP
- S/W DEVELOPMENT SPEC. (B5) FOR U/I
- o S/W DEVELOPMENT SPEC. (B5) FOR DMS
- o S/W DEVELOPMENT SPEC. (B5) FOR SYS. SERV.
- o SUBSYSTEM DEVELOPMENT SPEC. (B1) FOR WBC
- o H/W DEVELOPMENT SPEC. (B2) FOR PIU
- o H/W DEVELOPMENT SPEC. (B2) FOR BIU
- o H/W'DEVELOPMENT SPEC. (B2) FOR DATA BUS



PHASE II DOCUMENTS

- o RAM ANALYSIS DOCUMENT UPDATE
- o PROCESS DESIGN DOCUMENT
- o DATA BASE DEFINITION DOCUMENT
- o ICD MAIRIX
- o S/W INTEGRATION AND TEST PLAN
- o H/W CONFIGURATION DOCUMENT
- o WBC DRAWING TREE
- o WBC PROTOCOL SPEC.
- o WBC ICD
- o SAFE C SYSTEM TEST PLAN
- o SAFE C SYSTEM DEMO. PLAN
- o WBC INTEGRATION AND TEST PLAN



PHASE III DOCUMENTS

- o S/W INTERFACE DOCUMENT
- o DOCUMENT (SPECIFICATION) TREE
- o S/W PRODUCT SPEC. (C5) FOR APS
- o S/W PRODUCT SPEC. (C5) FOR EMP
- o S/W PRODUCT SPEC. (C5) FOR U/I
- o S/W PRODUCT SPEC. (C5) FOR DMS
- o S/W PRODUCT SPEC. (C5) FOR SYS. SERV.
- o H/W PRODUCT SPEC. (C2) FOR PIU
- o H/W PRODUCT SPEC. (C2) FOR BIU
- o H/W PRODUCT SPEC. (C2) FOR DATA BUS
- o SAFE C SITE PLAN
- o COMMERCIAL EQUIPMENT PLANS/PROCEDURES
- o SAFE PROJECT PLAN



PHASE III DOCUMENTS (CONTD)

- o SAFE FINANCIAL PLAN
- o END ITEM ACCEPTANCE PLAN
- o INCREMENT 2.5 USER LANGUAGE DEFINITION
- o SAFE C USERS MANUAL
- o PROGRAMMERS GUIDE



PHASE I SUMMARY

- o ALL DOCUMENTATION DELIVERED
- WELL ORGANIZED WELL PRESENTED WORK SESSION ATMOSPHERE POSITIVE
- o SOME AREAS GOOD (EMP/COMM)
- o CONTENTS OF APPLICATIONS/DATA MANAGEMENT
 - ADEQUATE BUT WITH DISCREPANCIES
- o SYSTEM SERVICES/USER INTERFACE MAJOR DEFICIENCIES
- o CSPO ESTIMATES MARCH 1982 TO CLEAN UP PDR DEFICIENCIES



PHASE 1 SUMMARY

7 MAJOR AREAS OF CONCERN

- o RTM IS INSUFFICIENT TO PERFORM TRACEABILITY
 - 15 DEC. FIX DATE
- o NO SINGLE DOCUMENT CAPTURES SYSTEM DESIGN
 - 3 MONTHS EFFORT TO FIX
- DOCUMENTATION LACKS DETAIL (IN SOME AREAS), CONSISTENCY AND COMPLETENESS
 - END OF MARCH IS CSPO ESTIMATE FOR ADEQUATE DOCUMENTATION
- o REQUIREMENTS DEFINITION IN SOME AREAS ARE STILL ONGOING
 - END OF MARCH 1982
- O PERT CHARTS INDICATED CODING PRIOR TO GOVERNMENTAPPROVED CDR
 - UNACCEPTABLE TO GOVERNMENT

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PHASE I SUMMARY

7 MAJOR AREAS OF CONCERN (CONTD)

- o REALLOCATION OF USERS TO UTSs FOR LOAD BALANCING NOT IN DESIGN
 - CSPO WORKING WITH CONTRACTOR NO IDENTIFIED FIX DATE
- o DESIGN ALGORITHMS INDICATE POTENTIAL SERIOUS PERFORMANCE PROBLEMS
 - WILL REVIEW IN DETAIL DURING PHASE III FOR COMPLETE ASSESSMENT



TECHNICAL STATUS (CONTD)

- o CONVERSION REQUIREMENTS SPEC
 - READY TO BE BASELINED; HOLDING FOR RESOLUTION OF DPR 221
- o TERMINAL
 - PERSISTENT FIRMWARE PROBLEM FEBRUARY 1982
 - TWO SETS OF PROMS DELIVERED FOR TESTING; KNOWN PROBLEMS
 - NEED BASELINE DOCUMENTATION; CONFIRMATION OF TERMINAL'S CAPABILITIES FEBRUARY 1982
- o SAFE USER LANGUAGE SPEC
 - COMMANDS & FUNCTIONS FOR INITIAL CIA DELIVERY 15 JAN 82
 - SYNTAX FOR BLOCK 1 1 FEB 82
 - BLOCK 1 SUL SPEC 1 MAR 82
- o DEVELOPMENT FACILITY 5 6900's; 1 7821; 50 DELTA DATA
- o CIA INITIAL DELIVERY 6900; UNDERGOING ACCEPTANCE TEST



TECHNICAL STATUS (CONTD)

- o COMMUNICATIONS (CDR SCHEDULED FOR APRIL 1982)
 - PROCESSOR INTERFACE UNIT (PIU) THRU-PUT PROBLEM
 - ICC ON SCHEDULE
 - CABLE TESTING ON SCHEDULE/NEARING COMPLETION
 - BUS INTERFACE UNIT UNDER CONTROL; COSTS STABLILIZING UNDER \$3K
 - CRYPTO MODULE ON SCHEDULE; INITIAL TESTING AT DF COMPLETED



AWARD FEE SCORING

		1	2	3	4	5
0	TECHNICAL PERFORMANCE	67	76	81	71	33
0	MANAGEMENT	7 5	71	70	65	35
0	SCHEDULE	95	90	77	65	33
0	SECURITY	98_	90_	90_	90_	90_
	AGGREGATE	75.0	78.0	78.0	69.0	36.5



SUMMARY OF 5TH PERIOD PERFORMANCE

- o PREVIOUS PROBLEMS PERSISTED
- o MANAGEMENT FOCUS ON GAINING TECHNICAL CONTROL
- o NO CURRENT PROJECT PLAN/FINANCIAL PLAN
- o STAFFING LEVEL INAPPROPRIATE TO STATE OF DEVELOPMENT
- o FUNDS EXPENDED NOT COMMENSURATE WITH TECHNICAL ACHIEVEMENT
- o TECHNICAL STATUS DIFFICULT TO JUDGE WITH REASONABLE CERTAINTY
- o MANAGEMENT AND ORGANIZATIONAL CHANGES POSITIVE STEP



SCHEDULE (BLOCK-I)

	0	INITIAL CIA DELIVERY (INCREMENT 2.5)	
STAT		- MANAGEMENT COMMITMENT	_	31 DECEMBER 1982
		- INITIAL PERT (NEW PROJECT PLAN)	-	15 MARCH 1983
		- CSPO PROGNOSIS	-	15 JUNE 1983 (EARLIER POSSIBLE BUT UNLIKELY)
••	0	FULL BLOCK-I	-	OCTOBER 1983 (VICE 31 DECEMBER 1982)
	0	INITIAL PERT CRITICAL DESIGN REVIEW (CDR)	-	MARCH 1982
STAT		FY 82 REDUCTION IN STAFF WILL N	OT	INCREASE



SCHEDULE (BLOCKS 2-4)

- o BLOCK 3 IN PROGRESS REVIEW (IPR) AUGUST 1982
 - DBMS/CONVERSION DIA UNIQUE DESIGN ACTIVITY CONTINUATION
- o SYSTEM PDR OCTOBER 1982
- o BLOCK 3 PDR MARCH 1983
- o BLOCK 3 IOC SEPTEMBER 1984
- o BLOCK 4 FEBRUARY 1985 OUTSIDE CURRENT CONTRACT
 - ADDITIONAL \$2.0 MILLION



FUNDING PICTURE/ISSUES

	80&81	<u>82</u>	<u>83</u>	<u>84</u>	TOTAL
ACTUAL/PLAN	30.4	26.0	23.9	14	95
OTHER	2.3	3.9	3.7	6.1	16
•	32.7	29.9	27.6	20.1	110.3
CSPO BUDGET/ DCI GUIDANCE	32.7	28.7	22.3	14.3	98.0
DIFFERENCE	0	-1.2	-5.3	-5.8	-12.3

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OTHER = CRYPTO, PRINTERS/TERMINALS, SITE PREPARATION (CIA ONLY),
TECH SUPPORT



FUNDING PICTURE ISSUES

- o CURRENT BURN RATE JEOPARDIZING FUTURE BLOCKS
- o FY 82 CONTRACTOR DIRECTED BY CSPO TO STAY WITHIN GOVERNMENT BUDGET \$24.7M
 - CONTRACTOR REDUCING STAFF BY 50 PEOPLE EFFECTIVE 1 DEC 81
 - FURTHER REDUCTIONS OF 40-50 BEING EVALUATED TO STAY WITHIN BUDGET
- o BOTH CIA AND DIA HAVE ENHANCED LEVEL PACKAGES
 - \$2.8 MILLION FY 83 (\$2.0M CIA; \$.8M DIA)
 - \$4.6 MILLION FY 84 (\$2.8M CIA; \$1.8M DIA)
- O OPTIONS AND ALTERNATIVES FOR FY 83 AND FY 84 WILL BE DEVELOPED BY CSPO UPON RECEIPT OF PROJECT PLAN/FINANCIAL PLAN

Next 2 Page(s) In Document Exempt



ADMINISTRATIVE STATUS

- o CHANGE ORDER SUMMARY
 - TOTAL PROPOSED 30 25 NEGOTIATED/CLOSED
 - . 13 NO COST / 12 WITH COST
 - . NET CHANGE TO CONTRACT: \$-3.9 MILLION (\$75.6M VERSUS \$71.7M)
 - . INCLUDES REMOVAL OF \$8.1 MILLION FOR TERMINALS/ PRINTERS AND \$4.2 MILLION IN INCREASES
 - CHANGE ORDERS 17, 18, 19, 23, 29 STILL OUTSTANDING
 - . 17 AND 19 (DESIGN REVIEWS/ASPEC CHANGES) WITHDRAWN FOR COST FIDELITY
 - . 18, 23, 29 (SECURITY RELATED) NOT PROPOSED



STAFFING LEVELS (ADMIN. CONTD)

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- STAFFED ABOVE PREVIOUS PLAN
 - , TECHNICAL ACHIEVEMENT/PROGRESS LAGGING PLAN
- PEAKED EARLIER AND HIGHER
- o MANAGEMENT INFRASTRUCTURE CAUSES OVERLAPPING OF FUNCTIONS/RESPONSIBILITIES



PROJECT PLAN/FINANCIAL PLAN (ADMIN. CONTD)

- o LATE NOW MID-DECEMBER VICE END OF OCTOBER 1981, THEN 20 NOV 81
- O CONTRACTOR FINALLY ACHIEVING DETAILED PLANNING NECESSARY FOR CONTROL & MANAGEMENT OF SOFTWARE DEVELOPMENT
- PERT STILL DOES NOT CONTAIN COMMUNICATIONS AND EXTERNAL MESSAGE PROCESSING
 - CSPO DIRECTED THEY BE PERT-ED



MANAGEMENT CHANGES (ADMIN CONTD)

0	MA	NAGEMENT CHANGES APPEAR TO BE TAKING EFFECT
	-	SENIOR SYSTEM ENGINEER; ENTIRE RESPONSIBILITY
		FOR DEVELOPMENT; STRONG DECISIVE LEADER
	-[SENIOR SOFTWARE ENGINEER; ENTIRE RESPONSIBILITY
		FOR SOFTWARE DEVELOPMENT - EXPERIENCED, STABLE, EFFECTIVE;
		IS PULLING SOFTWARE DEVELOPMENT TOGETHER
	-[- SENIOR COMMUNICATIONS ENGINEER; ENTIRE RESPONSI-
		BILITY FOR COMM DEVELOPMENT - CAPABLE, EXPERIENCED; HAS
		BROUGHT COMM DEVELOPMENT UNDER CONTROL

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SUMMARY

- o UNIT-LEVEL TECHNICAL REVIEW IN PROGRESS
 - UNEVEN BUT A BASIS FOR PROGRESS
 - TOP DOWN DESIGN NEEDS UPDATING
 - SELECTIVE GO-AHEADS TO BE GIVEN
- o STAFFING HAS BEEN OUT OF CONTROL
 - REDUCTION IN PROCESS
 - WILL NOT EFFECT SCHEDULE
- MANAGEMENT CHANGES ARE TAKING EFFECT
 - ORGANIZATIONAL CHANGES REDUCING OVERHEAD
 - SENIOR MANAGEMENT COMMITTED TO SCHEDULE
 - CORPORATE STRUCTURE WILL NOT EFFECT
- o COST
 - INCREASE OF \$12-\$15M LIKELY
 - CAS 418 PROBABLY CAUSE AN INCREASE
- o PROGNOSIS
 - PROBLEMS BUT PROGRESS (REF. MGMT. CHANGES & GOV'T MORE DIRECT INTERCESSION)

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NEAR TERM ACTIVITY

- o BLOCK 1 PDR SUMMARY IN JANUARY
- o JANUARY TRW VISITS
- o CO-CHAIRMAN MEETING FOR D-DIA / DCI MEETING